

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
4 November 2004 (04.11.2004)

PCT

(10) International Publication Number
WO 2004/094169 A1

(51) International Patent Classification⁷: B60G 3/20, 7/00

(21) International Application Number:

PCT/IB2004/001196

(22) International Filing Date: 21 April 2004 (21.04.2004)

(25) Filing Language:

Italian

(26) Publication Language:

English

(30) Priority Data:

TO2003A000313 22 April 2003 (22.04.2003) IT

(71) Applicant (for all designated States except US): SISTEMI SOSPENSIONI S.P.A. [IT/IT]; Viale Aldo Borletti, 61/63, I-20011 Corbetta (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): GERRARD, Miles, Barnaby [GB/IT]; Via Matteo Pescator, 17, I-10124 Torino (IT). IPPOLITO, Luigi [IT/IT]; Via Cortassa, 11, I-10044 Pianezza (IT).

(74) Agents: QUINTERNO, Giuseppe et al.; Jacobacci & Partners SpA, Corso Regio Parco 27, I-10152 Torino (IT).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

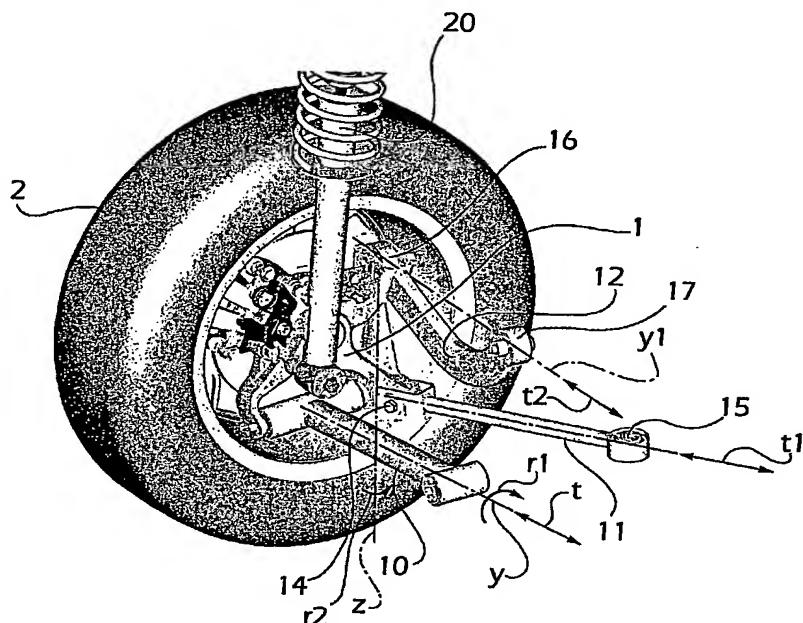
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,

[Continued on next page]

(54) Title: MOTOR-VEHICLE INDEPENDENT SUSPENSION



(57) Abstract: The suspension comprises a first, a second and a third rod-like connection member (10, 11, 12), each of which has a first (22, 13, 15) and a second point of articulation (23, 14, 16) to the wheel-carrier (1) and to the vehicle structure, respectively, and is arranged to control one degree of freedom of translation (t, t₁, t₂) along an axis (y, y₁, y₂) substantially passing through its own points of articulation. The first connection member (10) is arranged to control also a degree of freedom (r₁) of rotation about its own axis (y) and a degree of freedom (r₂) of rotation about a direction (z) substantially perpendicular to its own axis (y).



CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE,
EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM,
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM,
ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD,
SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG,
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT,
LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
TD, TG)

— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report
— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.